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PROCESS FOR THE MANUFACTURE OF (SUB)MICRON SIZED PARTICLES BY DISSOLVING IN COMPRESSED GAS AND SURFACTANTS

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Abstract of corresponding document: WO 9952504 (A1)

The present invention relates to a process for manufacturing a pulverous preparation of a (sub)micron-sized biologically active compound comprising the steps of: (1) dissolving a biologically active compound under elevated pressure in a compressed gas, liquid or supercritical fluid containing a surface modifier; or in compressed dimethylether optionally containing a surface modifier; (2a) rapidly expanding the compressed solution of step (1) thereby precipitating the dissolved compound; or (2b) spraying the compressed solution of step (1) into an antisolvent phase optionally containing a surface modifier under vacuum, atmospheric pressure or elevated pressure; and (3) optionally converting the antisolvent phase of step (2b) into a pulverous preparation using conventional powder processing techniques. With the process according to the present invention formation of aggregations or flocculations of particles dissolved in the supercritical solution is prevented; moreover, the addition of cosolvents is not required, thus increasing the stabilisation of the suspension on an industrial scale.

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